

**APPROVED**

**JAN 28 1980**

CHANGE ORDER FORM

Do

Environmental Resources

CHANGE ORDER NO. 4

DATE: May 4, 1979

OWNER: Hamilton Township Municipal Authority

ARROWOOD, INCORPORATED  
CONSULTING ENGINEERS

PROJECT: Waste Water Collection System  
EPA No. 420916010

CONTRACT NO. Alternate No. 1 Pipeline

CONTRACTOR: The Gerl Construction Company  
Post Office Box 21  
Glen Rock, Pennsylvania 17327

U.S. ARMY CORPS OF ENGINEERS  
PHILADELPHIA DISTRICT

☒ Certified **JAMES A. SMITH, JR.**  
Project Engineer  
☐ Noncertified

BY

DATE 2/26/80

THE FOLLOWING CHANGE IN THE CONTRACT LIMITS HAS BEEN REQUESTED BY THE: Owner

DESCRIPTION: Shift alignment for approximately 798 L. F. of 12" Sanitary Sewer to a position 5' + south of the present location. The realignment will require additional construction of one M. H. and one L. F. of 12" Sanitary Sewer. The section to be changed is located along U. S. Route # 30 beginning at a point approximately 360 feet east of intersection of T. R. 533. The following sheets of the plans are revised by this change order: Contract No. 3, Sheet No. 2.

Approved: April 6, 1981  
ENVIRONMENTAL PROTECTION AGENCY  
Region III

By: Jeffrey A. Fide

UNIT PRICE ITEM CHANGES OR BREAKDOWN OF COST:

ELIGIBLE ITEMS

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	TOTAL UNITS ORIGINAL	TOTAL UNITS REVISED	ORIGINAL TOTAL COST	REVISED TOTAL COST	TOTAL ADDITION	TOTAL DEDUCTION	REMARKS
25	12" G.S. 0'-6'	L. F.	18.70	2,898	2,899	54,192.60	54,211.30	18.70	-	+ 1 L. F.
53	M. H. 0'-6'	Ea.	732.00	513	514	375,516.00	376,248.00	732.00	-	+ 1 Ea.
82	2 RC Bedding	C. Y.	8.20	21,031.92	21,032.15	172,461.74	172,463.63	1.89	-	+ .23 C. Y.
84	Top Soil	S. Y.	1.00	82,192.60	82,194.30	82,192.60	82,194.30	1.70	-	+ 1.70 S. Y.
85	Fer., Mul., Seed	S. Y.	0.25	82,192.60	82,194.30	20,548.15	20,548.58	0.43	-	+ 1.70 S. Y.
110	Const.Stk.Out	L. F.	0.30	134,615	134,616	40,384.50	40,384.80	0.30	-	+ 1 L. F.

	INELIGIBLE	ELIGIBLE	TOTAL	\$755.02	-0-	SUB-TOTALS
PRESENT TOTAL CONTRACT AMOUNT:	\$457,233.26	\$4,664,326.00	\$5,121,559.26			
THIS CHANGE:	-\$ 294.88	+\$ 755.02	+\$ 460.14			
REVISED TOTAL CONTRACT AMOUNT:	\$456,938.38	\$4,665,081.02	\$5,122,019.40			

TOTAL COST CHANGE: \$460.14 Addition

UNIT PRICE ITEM CHANGES OR BREAKDOWN OF COST:

INELIGIBLE ITEMS

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	TOTAL UNITS ORIGINAL	TOTAL UNITS REVISED	ORIGINAL TOTAL COST	REVISED TOTAL COST	TOTAL ADDITION	TOTAL DEDUCTION	REMARKS
1	4" Ser. Lat.	L. F.	18.00	16,595	16,581	298,710.00	298,458.00	--	252.00	- 14
4	2 RC Bedding	C. Y.	8.17	1,977.4	1,975.66	16,155.36	16,141.14	--	14.22	- 1.74
17	Top Soil	S. Y.	0.98	8,973.7	8,950.40	8,794.23	8,771.40	--	22.83	- 23.3
18	Fert., Mul., Seed	S. Y.	0.25	8,973.7	8,950.4	2,243.42	2,237.59	--	5.83	- 23.3

-0-

\$294.88

SUB-TOTALS

TOTAL DAYS CONTRACT TIME ALTERED BY THIS CHANGE: One

REASON: To eliminate conflict between the sanitary sewer & existing  
storm sewer.

SUMMARY CONTRACT TIME:

PRESENT CONTRACT TIME: 543 CALENDAR DAYS

THIS CHANGE: 1 CALENDAR DAYS

REVISED CONTRACT TIME: 544 CALENDAR DAYS

APPROVED: ARROWOOD, INCORPORATED  
CONSULTING ENGINEERS

DATE: July 11, 1979

APPROVED: The Gerl Construction Company  
(CONTRACTOR)

DATE: July 20, 1979

APPROVED: Hamilton Township Municipal Authority  
(OWNER)

DATE: July 11, 1979

FARMERS HOME ADMINISTRATION APPROVAL

Murray E. Shaw 11-15-79  
FmHA REPRESENTATIVE DATE

PA. DEPARTMENT OF ENVIRONMENTAL RESOURCES APPROVAL

Mark Lezinsky 12/17/79  
D.E.R. REPRESENTATIVE DATE

PRESENT COMPLETION DATE: July 6, 1980

REVISED COMPLETION DAYS: July 7, 1980

W. L. O'Connell, P.E.

Arrowood, Incorporated

RESIDENT PROJECT  
REPRESENTATIVE

Rodney R. V. Pres.  
(NAME AND TITLE)

Henry M. C. [Signature]  
(NAME AND TITLE)

ENVIRONMENTAL PROTECTION AGENCY APPROVAL

E.P.A. REPRESENTATIVE

DATE



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE-2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

CHANGE ORDER (C.O.) CHECKLIST

GRANT NO.: C-420916-01 Contract No. Alt. 1

PROJECT NAME: Hamilton Township Sanitary Sewerage System C.O. NO.: 8  
DECREASE

GRANTEE: Hamilton Township Municipal Authority C.O. AMOUNT: \$1,558.64  
Relocation  
C.O. ITEMS: of Sewer

GRANTEE REP: Mr. Harry Fix, Chairman TELEPHONE NO.: (717) 264-1431

ADDRESS: Hamilton Township Municipal Authority  
R.D.#4, Chambersburg, PA 17201

PROJECT ENGINEER: Mr. Dennis Black TELEPHONE NO.: (717) 264-4540

ADDRESS: Arrowood, Inc.  
P.O.Box 433, Chambersburg, PA 17201

CONSULTANT: Mr. William L. Arrowood, P.E. TELEPHONE NO.: (717) 263-8794

ADDRESS: Arrowood, Inc.  
Chambersburg, PA 17201

CONTRACTOR: Mr. Rodney Krebs, Vice-President TELEPHONE NO.: (717) 235-6839

ADDRESS: The GERL Construction Company  
R.D.#2, P.O.Box 21, Glen Rock, PA 17327

**R.O. COPY**

*Contract Alt # 1 CO#8*



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE--2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106  
CHANGE ORDER ITEM CERTIFICATION SHEET

DATE: 26 February 1980

GRANT NO.: C-420916-01 PROJECT NAME: Hamilton Township Sanitary Sewerage System  
CONTRACT NO.: Alt. 1 C.O. NO.: 8 C.O. ITEM: Relocation of Sewer Alignment on Nottingham Drive.  
AMOUNT: \$1,558.64 ~~INCREASE~~/DECREASE INFORMATION PROVIDED BY: Dennis Black

DESCRIPTION: Relocate present sewer alignment and revise grade in right-of-way of proposed Nottingham Drive.

DRAWINGS AND BACK-UP CALCULATIONS: Revised Drawings (Contract No. 2, Sheets 23, 29, 29A, and 29B) attached.

JUSTIFICATION: This change will move sewer alignment from a location where no houseing development is anticipated to a location in a proposed subdivision. The change will produce additional customers for the Authority and reduce construction costs.

PRICING DATA (Detailed Price Breakdown; Available, Not Available; Negotiations; Lump Sum Only; Unit Price; Grantee or Authorized Representative Determined that Price is Fair and Reasonable):

Detailed price breakdown attached. Consultant estimated change, negotiated with contractor, and recommended to Authority for approval.

APPROVAL SIGNATURES:

APPROVAL DATES:

CONTRACTOR: Rodney Krebs, Vice Pres., GERL Construction Company DATE: 17 May 1979

CONSULTANT: William L. Arrowood, Pres., Arrowood, Inc. DATE: 8 May 1979

GRANTEE: Harry N. Fix, Chairman, Hamilton Township Municipal Authority DATE: 8 May 1979

CORPS OF ENGINEERS' ACTION:

CERTIFIED: James A. Smith, Jr. DATE: 26 February 1980  
JAMES A. SMITH, JR., P.E., Chambersburg Area Engr, Philadelphia Project Ofc

NONCERTIFIED: DATE:

Reason:

FIELD INSPECTION OF CHANGE ORDER WORK IN PLACE (Completed/Not Completed, etc.):  
Work satisfactorily completed. DATE: 26 February 80

**APPROVED**

**JAN 28 1980**

CHANGE ORDER FORM

Department of  
**Environmental Resources**

CHANGE ORDER NO. 8

DATE: April 20, 1979

OWNER: Hamilton Township Municipal Authority

**ARROWOOD, INCORPORATED**  
**CONSULTING ENGINEERS**

PROJECT: Waste Water Collection System  
EPA No. 420916010

CONTRACT NO. Alternate No. 1 Pipeline

CONTRACTOR: The Gerl Construction Company  
P. O. Box 21  
Glen Rock, Penna. 17327

U.S. ARMY CORPS OF ENGINEERS  
PHILADELPHIA DISTRICT

☒ Certified **JAMES A. SMITH, JR.**  
Project Engineer  
☐ Noncertified

BY

DATE 2/26/80

THE FOLLOWING CHANGE IN THE CONTRACT LIMITS HAS BEEN REQUESTED BY THE: Owner

**DESCRIPTION:** Relocate present sewer alignment, starting at M.H. D-52 located on TR539 and ending at M.H. D-65 located in R.O.W. of a proposed street named Nottingham Drive, consisting of 984 L.F. of 8" S.S. & 4 M.H.'s, to a location in the R.O.W. of a proposed street which will require 1985 L.F. of 8" S.S. & 8 M.H.'s. Eliminate drop connection at M.H. D-52 and revise grade between M.H. D-52 & M.H. D-53 located on TR 539.

The following sheets of the plans are revised or added by this Change order:  
Contract No. 2-sht No. 23, sht. No. 29, sht. No. 29A and sht. No.29B.

Approved: April 6, 1981  
ENVIRONMENTAL PROTECTION AGENCY  
Region III

By:

Jeffrey A. Piko

UNIT PRICE ITEM CHANGES OR BREAKDOWN OF COST:

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	TOTAL UNITS ORIGINAL	TOTAL UNITS REVISED	ORIGINAL TOTAL COST	REVISED TOTAL COST	TOTAL ADDITION	TOTAL DEDUCTION	REMARKS
1	8"G.S., 0'-6'	L.F.	15.45	42630	44005	658633.50	679877.25	21243.75	-	+1375
2	8"G.S., 6'-8'	L.F.	17.41	27577	27590	480115.57	480341.90	226.33	-	+ 13
3	8"G.S., 8'-10'	L.F.	19.84	14600	14475	289664.00	287184.00	-	2480.00	- 125
4	8"G.S., 10'-12'	L.F.	23.91	7186	7168	171817.26	171386.88	-	430.38	- 18
5	8"G.S., 12'-14'	L.F.	27.17	4657	4582	126530.69	124492.94	-	2037.75	- 75
6	8"G.S., 14'-16'	L.F.	32.05	2440	2374	78202.00	76086.70	-	2115.30	- 66
7	8"G.S., 16'-18'	L.F.	35.55	1322	1245	46997.10	44259.75	-	2737.35	- 77
8	8"G.S., 18'-20'	L.F.	46.71	11	-55	513.81	-2569.05	-	3082.86	- 66
16	8"G.S., 20'-22'	L.F.	58.61	300	270	17583.00	15824.70	-	1758.30	- 30
17	8"G.S., 22'-24'	L.F.	72.77	61	0	4438.97	0.00	-	4438.97	- 61
18	8"G.S., 24'-26'	L.F.	85.80	14	0	1201.20	0.00	-	1201.20	- 14
19	10"G.S., 0'-6'	L.F.	16.98	3151	3296	53503.98	55966.08	2462.10	-	+ 145
53	M.H. C.I.P. 0'-6'	EA.	732.00	509	513	372588.00	375516.00	2928.00	-	+
54	M.H. Over 6'	V.F.	31.40	1209.9	1203.6	37990.86	37793.04	-	197.82	-
55	Drop M.H. Conn.	V.F.	128.10	294.49	280.49	37724.17	35930.77	-	1793.40	- 14.0
56	W.T. M.H. F&C	EA.	67.10	30	31	2013.00	2080.10	67.10	-	+ 1
82	2-RC Bedding	C.Y.	8.20	20854.62	21031.92	171007.88	172461.74	1453.86	-	+ 177.3
84	Topsoil	S.Y.	1.00	83369.6	82192.60	83369.60	82192.60	-	1177.00	-1177
85	Fert., Mulc., Seed	S.Y.	0.25	83369.6	82192.60	20842.40	20548.15	-	294.25	-1177
87	10"Main 6" C.E.	L.F.	34.16	150	170	5124.00	5807.2	683.20	-	+ 20



UNIT PRICE ITEM CHANGES OR BREAKDOWN OF COST:

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	TOTAL UNITS ORIGINAL	TOTAL UNITS REVISED	ORIGINAL TOTAL COST	REVISED TOTAL COST	TOTAL ADDITION	TOTAL DEDUCTION	REMARKS
90	Comp.Sel. Fill	C.Y.	4.00	2960.5	1669.2	11842.00	6676.80	-	5165.20	-1291.3
95	36" C.M.P.	L.F.	36.60	55	0	2013.00	0.00	-	2013.00	- 55
110	Const. Stake Out	L.F	0.30	133614	134615	40084.20	40384.50	300.30		+1001

			<u>29364.64</u>	<u>30922.78</u>	SUB-TOTALS
		INELIGIBLE	ELIGIBLE	TOTAL	
PRESENT TOTAL CONTRACT AMOUNT:	457233.26	4,665,884.14	5,123117.40		
THIS CHANGE:	0.0	- 1,558.14	- 1,558.14		
REVISED TOTAL CONTRACT AMOUNT:	457233.26	4,664326.00	5,121559.26		

TOTAL COST CHANGE: Deduct 1558.14

TOTAL DAYS CONTRACT TIME ALTERED BY THIS CHANGE: 0

REASON: This change will move sewer alignment from a location where no housing development  
is anticipated to a location in a proposed subdivision. The change will produce  
additional customers for H.T.M.A. and result in a reduction of construction cost by approximately \$1000.00

SUMMARY CONTRACT TIME:

PRESENT CONTRACT TIME: 543 CALENDAR DAYS

PRESENT COMPLETION DATE: July 6, 1980

THIS CHANGE: 0 CALENDAR DAYS

REVISED CONTRACT TIME: No change CALENDAR DAYS

REVISED COMPLETION DAYS: No Change, 19

APPROVED: ARROWOOD, INCORPORATED  
CONSULTING ENGINEERS

DATE: May 8, 1979

W. L. Chaudhry P.E.

Arrowood, Incorporated

RESIDENT PROJECT  
REPRESENTATIVE

APPROVED: Gerl Construction Company  
(CONTRACTOR)

DATE: May 17, 1979

Rodney L. Kuhl  
(NAME AND TITLE) V-Pres.

APPROVED: Hamilton Township Municipal Authority  
(OWNER)

DATE: May 2, 1979

Henry D. Eise  
(NAME AND TITLE)

FARMERS HOME ADMINISTRATION APPROVAL

Murray E. Shaw 11-15-79  
FmHA REPRESENTATIVE DATE

ENVIRONMENTAL PROTECTION AGENCY APPROVAL

E.P.A. REPRESENTATIVE DATE

PA. DEPARTMENT OF ENVIRONMENTAL RESOURCES APPROVAL

D.E.R. REPRESENTATIVE DATE